MAR 1 6 2005 W

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named

Inventor

Stan V. Lyons

Appln. No.

10/718,754

Filed

: November 21, 2003

Title

BULK MATERIAL IRRADIATION

SYSTEM

Docket No.

M881.12-0017

Group Art Unit: 2881

Examiner: P. Johnston

EXPRESS MAIL COVER SHEET

Mail Stop Amendment Commissioner For Patents P.O. Box 1450 Alexandria, VA 22313-1450

SENT VIA EXPRESS MAIL

Express Mail No.: EV 485711849 US

The following papers are being transmitted via $\boldsymbol{EXPRESS\,MAIL}$ to the U.S. Patent and

Trademark Office on the date shown below:

- 1. Response;
- 2. Fee Transmittal (in duplicate); and
- 3. Return receipt postcard.

Respectfully submitted,

KINNEY & LANGE, P.A.

Date: 3/16/05

Bv

Alan M. Koenck, Reg. No. 43,724

THE KINNEY & LANGE BUILDING

312 South Third Street

Minneapolis, MN 55415-1002

Telephone: (612) 339-1863

Fax: (612) 339-6580

AMK:bmg

	Complete if Known				
OIPE FEE TRANSMITTAL	Application No.	10/718,754			
4	Filing Date	November 21, 2003			
MAR 1 6 2005 1	First Named Inventor	Stan V. Lyons			
THE DEAL PRINTERS	Group Art Unit	2881			
THE DESCRIPTION OF THE PROPERTY OF THE PROPERT	Examiner Name	P. Johnston			
Total Amount of Payment \$0.00	Atty. Docket Number	M881.12-0017			
METHOD OF PAYMENT (Check One)	FEE	FEE CALCULATION (Continued)			
1. [X] The Commissioner is hereby authorized to charge any additional f	1 7				

1 VB	CENT					Exam	iner iv	ame		P. Johnston	
Total Amount of Payment \$0.00						Atty. [Atty. Docket Number M881.12-0017		M881.12-0017		
METHOD OF PAYMENT (Check One)						FEE CALCULATION (Continued)					
required Deposit	d under 37 Account	7 C.F.R. 1 No.11-09	.16 and 1 <u>82.</u> Depos	.17 and cred	harge any additional fee it any over payments to lame: Kinney & Lange, aclosed.		DDITIO e Entity Fee e (\$)	Small I Fee Code		Fee Description	Fee paid
2. [] C	heck Encl	osed				1051	130	2051	65	Surcharge - Late filing fee or oath	*
•		F	EE CALC	ULATION		1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	_*
1. BAS	IC FILING	3 FEE				1053	130	1053	130	Non-English specification	*
· -				EXAM FEES		1812	2,520	1812	2,520	For Filing a Request for Reexamination	*
PD.	pe FEE/SM	ALL FEE	<u>'SMALL</u> <u>I</u>	FEE/SMALL I	FEES	1251	120	2251	60	Extension for reply within first month	*
Utility	300 / 150	500	250	200 / 100	_	1252	450	2252	225	Extension for reply within second month	*
Design	200 / 10			130 / 65	_	1253	1,020	2253	510	Extension for reply within third month	*
Reissue	300 / 150 al. 200 / 100			-0- / -0-	_	1254	1,590	2254	795	Extension for reply within fourth month	
FIOVISION	ai. 2007 100	, -0- /	-0-	-0- / -0-	- Cultivate (4)/60 00	1255	2,160	2255	1,080	Extension for reply within fifth month	*
2 EYT	RA CLAII	A EEES			Subtotal (1) \$0.00	1402	500	2402	250	Filing a brief in support of an appeal	*
2. LA	Number	Prior**	Extra	Fee from Fe	ee Paid	1403	1,000	2403	500	Request for oral hearing	*
•	Claims			Below		1814	130	2814	65	Terminal Disclaimer Fee	*
Total	<u>17</u> -	20 =	<u>0</u> x	<u>*</u> =	*	1452	500	2452	250	Petition to revive - unavoidable	*
Indep.	<u>6</u> -	<u>6</u> =	<u>0</u> x	<u>*</u> =	*	1453	1,500	2453	750	Petition to revive - unintentional	*
Multiple D	ependent C	laims		<u>*</u> =	<u>*</u>	1501	1,400	2501	700	Utility/Reissue issue fee	*
**Insert 3 below	and 20, or r	number pre	iously paid	if greater; Reiss	ue see	1502	800	2502	400	Design issue fee	*
Large 8	Entity Fee	Small (Fee	Entity Fee	Description		1460	130	1460	130	Petitions to the Commissioner	*
Fee Code	<u>(\$)</u>	Code	(\$)	Description		1807	50	1807	50	Petitions related to provisional applications	*
1202	50	2202	25	Claims in ex	cess of 20	1806	180	1806	180	Submission of Information Disclosure	
1201	200	2201	100	Independent of 3	claims in excess					Statement	*
1203	360	2203	180	Multiple Dep	endent Claim	8021	40	8021	40	Recording each patent assignment per property (times number of properties)	_
1204	200	2204	100	Reissue Inde Over Origina	ependent Claims al Patent	1801	790	2801	395	Request for Continued Examination (RCE)	*
1205	50	2205	25	Reissue clair and over orig	ms in excess of 20 ginal patent	Other f	ee (speci	ify)	_	100 000 000 000 000 000 000 000 000 000	*
If the sp applicati	on size fe	and drav	vings exce \$250 (\$12	5 small) for e	ets of paper, the ach additional 50 I(G) and 37 C.F.R.					Subtotal (3) \$0.00

Signature	al Youl	Reg. No.	43,724	
	Alan M. Koenck			
Date	March 16, 2005	Deposit Account No	11-0982	



3-17-05



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named

Inventor

Stan V. Lyons

Appln. No.

10/718,754

Filed

: November 21, 2003

Title

BULK MATERIAL IRRADIATION

SYSTEM

Docket No.

M881.12-0017

RESPONSE

Mail Stop Amendment Commissioner For Patents P.O. Box 1450 Alexandria, VA 22313-1450 SENT VIA EXPRESS MAIL

Express Mail No.: EV 485711849 US

Group Art Unit: 2881

Examiner: P. Johnston

This is in response to the Office Action mailed on December 17, 2004, in which all of the pending claims (1, 2, 4-15, 17 and 18) were rejected. Specifically, according to the Office Action, claims 1, 2, 4-15, 17 and 18 were rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent Pub. 2003/0129274 (Garwood) in view of U.S. Patent No. 5,825,037 (Nablo), claim 2 was rejected under 35 U.S.C. § 103(a) as being unpatentable over Garwood and Nablo in view of McKeown (U.S. Patent No. 5,847,401), and claims 9-11 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Garwood, Nablo, and McKeown in further view of Kanter (U.S. Patent No. 4,757,201).

Independent Claim 1

Claim 1 reads as follows:

- 1. A bulk material irradiation system comprising:
 - an input for inserting bulk material;
 - a bulk material tube connected to the input and forming a path for bulk material flow;
 - a pumping assembly connected to the bulk material tube for forcing the bulk material to advance through the bulk material tube;